

TUD Dresden University of Technology, as a University of Excellence, is one of the leading and most dynamic research institutions in the country. Founded in 1828, today it is a globally oriented, regionally anchored top university as it focuses on the grand challenges of the 21st century. It develops innovative solutions for the world's most pressing issues. In research and academic programs, the university unites the natural and engineering sciences with the humanities, social sciences and medicine. This wide range of disciplines is a special feature, facilitating interdisciplinarity and transfer of science to society. As a modern employer, it offers attractive working conditions to all employees in teaching, research, technology and administration. The goal is to promote and develop their individual abilities while empowering everyone to reach their full potential. TUD embodies a university culture that is characterized by cosmopolitanism, mutual appreciation, thriving innovation and active participation. For TUD diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who would like to commit themselves, their achievements and productivity to the success of the whole institution.

At the **Faculty of Mechanical Engineering**, the **Institute of Lightweight Engineering and Polymer Technology** offers a position as

**Research Associate for Testing and Modeling of Fiber Composites (m/f/x)**

(subject to personal qualification employees are remunerated according to salary group E13 TV-L)

starting **January 1, 2026**. The position is limited until December 31, 2026. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). You will be working with the team of "testing methods and material modeling". The position offers the chance to obtain further academic qualification.

**Tasks:** As part of a fundamental research project with a German project partner, the focus of the scientific work is on the experimental investigation of the damage behavior of fiber-reinforced plastic composites under various load scenarios. This includes activities in the areas of composite production, material testing, data evaluation, simulation and modeling as well as quality assurance. You will be responsible for selecting and preparing the necessary experimental investigations and evaluation methods, for which extensive measurement technology is available at and around the institute. The work will be carried out in close cooperation with the research partner, which requires autonomous communication and proactive collaboration. The results obtained in the project must be published in international journals and presented at national and international scientific conferences. In addition to the project work, you will also supervise project-related student work, prepare further research work in the team and carry out knowledge transfer initiatives.

**Requirements:** very good scientific university degree, preferably in the field of mechanical engineering, lightweight construction, plastics technology or materials technology; good knowledge in the field of fiber composite technology, common design and simulation software (Solidworks / Abaqus / SiemensNX) as well as programming languages (Matlab, Python) and Microsoft Office. An autonomous way of working with a high level of initiative as well as the willingness to actively participate in interdisciplinary research teams is required. Due to the high experimental component, practical skills as well as theoretical know-how are an advantage. The cooperation with the research partner and the presentation of the project results requires occasional business trips to project partners and conferences. In addition, the willingness to complete a doctoral degree is a fundamental prerequisite for employment.

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The University is a certified family-friendly university. We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment.

Please submit your detailed application with the usual documents by **August 28, 2025** (stamped arrival date of the university central mail service applies) to: **TU Dresden, Institut für Leichtbau und Kunststofftechnik, Frau Dipl.-Ing. Barbara Röllig -persönlich-, Helmholtzstr. 10, 01069 Dresden, Germany**. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

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**Reference to data protection:** Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: <https://tu-dresden.de/karriere/datenschutzhinweis>.